

**Abstract:**

A microstrip line element is composed of a first electrode layer (10) as a  
5 substrate which is more of a metal, a dielectric layer (20) formed by oxidizing,  
nitriding or oxyynitriding the first electrode layer (10), a conductor layer (30)  
formed on the dielectric layer (20) and a second electrode layer (40) formed on  
the conductor layer (30). The conductor layer (30) is composed of at least  
conductive nanoparticles (32) and a binder resin (31).